PSC REF#:207097

Public Service Commission of Wisconsin
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Exhibit-4

PSC REF#:204755

Public Service Commission of Wisconsin
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MILWAUKEE Water Works

Milwaukee Water Works Engineering
2014 Water Main Break Experience Index
Based on the Number of Breaks/100 ft.

File No.: C-28-23
Program Status as of 5/20/2014

Index No		Location of Project			Water Main Replacement	Breaks per 100 ft.	Size	Year Installed	Length	Qtr Sec	No. of Breaks			Previous Index No.			
2014-0001		MEDFORD AV (VAC) (WE 166)	65' NW/O W NORTH AV	W NORTH AV		3.158	6	1893	95	325	3	1	2004	2013-0001			$20900
2014-0002	N	32ND ST (EXT'D)	W RUBY AV(EXT'D)	350' S/O W RUBY AV(EXT'D)		3.143	8	1949	350	230	11	4 0	2011 0	2013-0002			$77000
2014-0003		FIEBRANTZ CT	W FIEBRANTZ AV	150' SW/O W FIEBRANTZ AV	2014-670	3.030	6	1955	165	252	5	3 0	2009 0	2013-0003			$36300
2014-0004		MARCY LN	S HONEY CREEK DR	S 63RD ST	2014-679	2.857	6	1959	630	572	18	1 3	2014 2013	2013-0004			$138600
2014-0005		SILVER SPRING DR (N/S)	N 27TH ST	700' W/O N 27TH ST	2014-622	2.857	8	1950	700	170	20	4 1	2013 2012	2013-0005			(N/S) $154000
2014-0006		CUSTER AV	N 44TH ST	N 45TH ST	2014-675	2.647	8	1951	340	191	9	1 1	2012 2011	2013-0007			$74800
2014-0007		WILBUR AV	S 91ST ST	S 92ND ST	2014-605	2.500	8	1957	320	560	8	1 4	2013 2009	2013-0008			$70400
2014-0008		CARMEN AV	N 62ND ST	N 63RD ST	2014-618	2.424	8	1956	330	174	8	1 1	2013 2011	2013-0009			$72600
2014-0009	N	JEFFERSON ST	E CHICAGO ST	E MENOMONEE ST		2.368	6	1902	380	396	9	3 1	2013 2007	2013-0077			$83600
2014-0010		WREN AV	N 32ND ST	N 34TH ST		2.353	8	1950	425	170	10	6 2	2013 2008	2013-0011			$93500
2014-0011		CHAMBERS ST	N 81ST ST	N 82ND ST		2.353	8	1929	340	303	8	3 1	2011 2008	2013-0010			$74800
2014-0012		WILBUR AV	S 90TH ST	S 91ST ST	2014-605	2.339	8	1957	342	560	8	1 1	2014 2011	2013-0012			$75240
2014-0013		LYNX CT	150 E/O N 95TH ST	N 95TH ST		2.286	6	1958	175	151	4	1 0	2013 0	2013-0050			$38500
2014-0014		HOPE AV	N 81ST ST	N 82ND ST	2015-603	2.250	8	1956	400	252	9	1 3	2014 2013	2013-0020			$88000
2014-0015	N	100TH ST	W GRANTOSA DR	W MARION ST		2.154	12	1954	650	254	14	3 1	2013 2006	2013-0093			$143000
2014-0016		SAVELAND AV	S 5TH ST	S 5TH PL	2014-625	2.143	8	1950	280	549	6	1 1	2012 2009	2013-0014			$61600
2014-0017	S	81ST ST	W WILBUR AV	W NEW JERSEY AV	2014-606	2.105	8	1957	285	559	6	1 2	2013 2009	2013-0042			$62700
2014-0018		JERELYN PL	S 51ST ST	240' W/O S 51ST ST	2014-621	2.083	6	1953	240	492	5	1 2	2014 2008	2013-0015			$52800
2014-0019	N	28TH ST	380' N/O W VILLARD AV	900' N/O W VILLARD AV	2014-648	2.075	6	1953	530	193	11	1 1	2014 2008	2013-0016			$116600
2014-0020	N	77TH ST	W BECKETT AV	W RUBY AV	2014-612	2.059	6	1955	340	224	7	1 1	2012 2011	2013-0017			$74800
2014-0021	E	DEER PL	S GREELEY ST	S BURRELL ST		2.000	6	1898	300	499	6	1 1	2008 2003	2013-0019			12FT DEEP $66000
2014-0022	N	29TH ST	675' N/O W VILLARD AV	900' N/O W VILLARD AV	2014-649	2.000	6	1953	200	193	4	1 0	2014 0	2013-0018			$44000
2014-0023		CONGRESS ST	N 87TH ST	N 88TH ST	2014-684	2.000	12	1956	350	223	7	1 1	2013 2010	2013-0049			$77000
2014-0024	S	77TH ST	W WILBUR AV	W TRIPOLI AV	2014-601	1.990	6	1957	1005	559	20	1 5	2011 2009	2013-0021			$221100
2014-0025		APPLETON AV	200' S/E OF W NASH ST	W NASH ST		1.951	8	1952	205	264	4	1 0	2010 0	2013-0023			$45100
2014-0026	N	4TH ST	W KILBOURN AV	W STATE ST	2014-686	1.951	6	1873	410	392	8	1 1	2013 2010	2013-0022			$90200
2014-0027	N	94TH ST	W ELMORE AV	W MELVINA ST		1.940	6	1951	670	261	13	1 2	2013 2011	2013-0024			$147400
2014-0028		LEROY AV	S 61ST ST	S 64TH ST	2014-680	1.935	6	1959	930	572	18	1 4	2014 2013	2013-0105			$204600
2014-0029		BRENTWOOD AV	N 80TH ST	N 82ND ST	2014-627	1.920	8	1956	625	142	12	1 1	2014 2011	2013-0025			$137500
2014-0030		RUBY AV	N 77TH ST	N 78TH ST	2014-613	1.911	8	1955	314	224	6	1 1	2012 2005	2013-0026			$69080
2014-0031	N	63RD ST	W CAPITOL DR	W FIEBRANTZ AV		1.905	6	1955	630	250	12	1 2	2013 2010	2013-0027			$138600
2014-0032		GRANTOSA DR	N 100TH ST	W FIEBRANTZ AV	2014-663	1.892	8	1955	740	255	14	1 1	2012 2011	2013-0029			$162800
2014-0033	N	75TH ST	W COURTLAND AV	W DERBY PL		1.892	8	1956	370	225	7	1 1	2010 2008	2013-0028			$81400

PSC REF# :247756

QTR SEC	LOCATION		JT	SIZE	YR	TOL SF	DATE OF_BK	REPAIRDATA	ADDIT_INFO	CORR	TRANS	SPLIT	OTHER	NOINFO	INDEX NUM
325	W MEDFORD AV (VAC) (	20' N/O W NORTH AV	L	6	1893		3/8/1986	CLAMP	4" CORR. HOLE (W. MEDFOR	✓					2014-0001
325	W MEDFORD AV (VAC) (	20' N/O W NORTH AV	L	6	1893	M	5/5/1993	CLAMP	3" CORR HOLE IN TOP	✓					2014-0001
325	W MEDFORD AV (VAC) (	65' NW/O W NORTH AV	L	6	1893	M	2/5/2004	6x12			✓				2014-0001
230	N 32ND ST (EXT'D)	S/O W RUBY AV (EXT'D)	L	8	1949	M	9/14/2011	1- 8x12 SS Rep		✓					2014-0002
230	N 32ND ST (EXTD)	S/O W. RUBY AV (EXT'D)	L	8	1949	M	7/21/2011	2-8"X12" S/S CL		✓					2014-0002
230	N 32ND ST (EXT'D)	S/O W RUBY AV (EXT'D)	L	8	1949	M	6/23/2011					✓			2014-0002
230	N 32ND ST (EXT'D)	S/O W RUBY AV (EXT'D)	L	8	1949	M	4/26/2011					✓			2014-0002
230	N 32ND ST (EXTD)	90' S/O W. RUBY	L	8	1949		9/19/1980	4' PVC, 2 DP SL	4' LONGIT SPLIT			✓			2014-0002
230	N 32ND ST (EXTD)	(RUBY GARAGE) BACK OF B	L	8	1949	M	5/26/1996	30" CLAMP	3 x 5" CORR. HOLE ON BOTT	✓					2014-0002
230	N 32ND ST (EXTD)	176' S/O NORTHSIDE OF RU	L	8	1949		8/25/1986	CLAMP	3" CORR. HOLE IN BOTTOM	✓					2014-0002
230	N 32ND ST (EXTD)	180' S/O NORTHSIDE OF RU	L	8	1949		8/25/1986	CLAMP	4" CORR. HOLE IN BOTTOM	✓					2014-0002
230	N 32ND ST (EXTD)	200' S/O NORTHSIDE OF RU	L	8	1949		8/25/1986	CLAMP	1" CORR. HOLE IN BOTTOM	✓					2014-0002
230	N 32ND ST (EXTD)	111' S/O N/L.L. (MAIN IS ON	L	8	1949	M	5/4/2000	CLAMP	1/4" HOLE ON TOP	✓					2014-0002
230	N 32ND ST (EXTD)	70FT S/O 2ND HYD W/O N 30	L	8	1949	M	10/13/1998	CLAMP	1" CORR HOLE TOP	✓					2014-0002
252	W FIEBRANTZ CT	5' S/O W FIEBRANTZ AV	L	6	1955	M	3/1/2009				✓				2014-0003
252	W FIEBRANTZ CT	INTERSECTION W FIEBRAN	L	6	1955	M	5/28/2009	8x12 clamp		✓					2014-0003
252	W FIEBRANTZ CT	5' S/O W FIEBRANTZ AV	L	6	1955	M	5/21/2009	1 - 6 x 12" clamp		✓					2014-0003
252	W FIEBRANTZ CT	10' S/O W FIEBRANTZ AV	L	6	1955		12/24/1987	CLAMP	TRANS. BREAK		✓				2014-0003
252	W FIEBRANTZ CT	75' SW/O W FIEBRANTZ AV	L	6	1955	M	4/10/2003	2-6X12 CLAMP	2"/1" CORR HOLES TOP	✓					2014-0003
572	W MARCY LA	INT S 63RD ST		6	1959	GF	1/16/2014			✓					2014-0004
572	W MARCY LA	469' W/O S 61ST ST	L	6	1959	GF	4/21/2008			✓					2014-0004
572	W MARCY LA	125' W/O S 61ST ST	L	6	1959	M	10/26/2011			✓					2014-0004
572	W MARCY LA	50' E/O S 63RD ST	L	6	1959	GF	1/14/2009			✓					2014-0004
572	W MARCY LA	390' W/O S 61ST ST	L	6	1959	GR	5/22/2013							✓	2014-0004
572	W MARCY LA	650' W/O S 61ST ST	L	6	1959	GF	3/17/2013	2 - 6" macro sle			✓	✓			2014-0004
572	W MARCY LA	610' W/O S HONEY CREEK D	L	6	1959	M	6/2/2012			✓					2014-0004
572	W MARCY LA	540' W/O S 61ST ST	L	6	1959	GF	5/23/2013	2 - 6" macro sle				✓			2014-0004
572	W MARCY LA	350' W/O S HONEY CREEK D	R	6	1959	GF	12/21/1986	REPLACED 6 C					✓		2014-0004
572	W MARCY LA	50' E/O S 63RD ST	MJ	6	1959	GF	2/27/1988	CLAMP	TRANS. BREAK		✓				2014-0004
572	W MARCY LA	300' W/O S 61ST ST	R	6	1959	GF	1/30/1976	CLAMP					✓		2014-0004
572	W MARCY LA	100' E/O S 63RD ST	R	6	1959	GF	11/20/1982	6-T BOLTS (ME	CORRODED BOLTS	✓					2014-0004
572	W MARCY LA	31' W/O S 61ST ST	R	6	1959	GF	1/25/1981	CLAMP	TRANS. BRK., M.J. JT.		✓				2014-0004
572	W MARCY LA	170' W/O S HONEY CREEK D	R	6	1959	GF	12/21/1991	CLAMP	TRANS. BRK.		✓				2014-0004
572	W MARCY LA	650' W/O S 61ST ST	L	6	1959	M	2/23/2007	1- 6"X12" S/S C			✓				2014-0004
572	W MARCY LA	520' W/O S 61ST ST	L	6	1959	GF	2/23/2007	MJ Constructon			✓				2014-0004
572	W MARCY LA	10' E/O S 63RD ST		6	1959	GF	12/29/2001	CLAMP	CRACK AROUND		✓				2014-0004
572	W MARCY LA	30' W/O S HONEY CREEK DR	L	6	1959	M	1/18/1998	CLAMP	1" CORR HOLE	✓					2014-0004
572	W MARCY LA	300' W/O S 61ST ST	L	6	1959	M	4/19/1998	CLAMP	CORR HOLE 1.5 IN TOP	✓					2014-0004
170	W SILVER SPRING DR (N	50' W/O N 27TH ST	L	8	1950	M	1/31/2013			✓					2014-0005
170	W SILVER SPRING DR (N	40' W/O N 27TH ST	L	8	1950	M	7/13/2009	None						✓	2014-0005
170	W SILVER SPRING DR (N	30' W/O N 27TH ST	L	8	1950	M	7/22/2009	1 - 8 x 12" cl.					✓		2014-0005
170	W SILVER SPRING DR (N	90' W/O N 27TH ST	L	8	1950	M	1/31/2011			✓					2014-0005
170	W SILVER SPRING DR (N	87' W/O N 27TH ST	L	8	1950	M	5/19/2013							✓	2014-0005